

L&T Technology Services Limited L&T Knowledge City Special Economic Zone (IT/ITES) West Block -II, N.H.08 Between Ajwa-Waghodiya Crossing Vadodara - 390019, Gujarat, India

July 28, 2017

National Stock Exchange of India Limited Exchange Plaza, Bandra-Kurla Complex Bandra (East), Mumbai – 400 051.

NSE Symbol: LTTS

The BSE Limited Phiroze Jeejeebhoy Towers, Dalal Street, Mumbai- 400001 BSE Script Code: 540115

Dear Sirs,

Ref: Our letter dated July 03, 2017

We are sending herewith a copy of the "L&T Technology Services, Investor Day Presentation".

The Presentation is self-explanatory.

Kindly take the above Presentation on record and acknowledge the receipt of the same.

Thanking You,

Yours sincerely,

For L&T Technology Services Limited

Kapil Bhalla

Company Secretary

M. No F3485



Safe Harbour Statement

Certain statements in this release concerning our future growth prospects are forward-looking statements, which involve a number of risks, and uncertainties that could cause our actual results to differ materially from those in such forward-looking statements. L&T Technology Services Limited (LTTS) does not undertake to update any forward-looking statement that may be made from time to time by us or on our behalf.



Engineering The Change



Dr. Keshab Panda

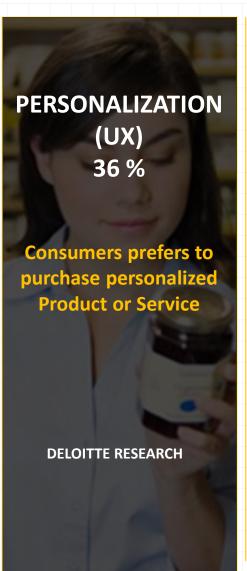
CEO & MD,

L&T Technology Services Limited



End Customers needs are changing ...



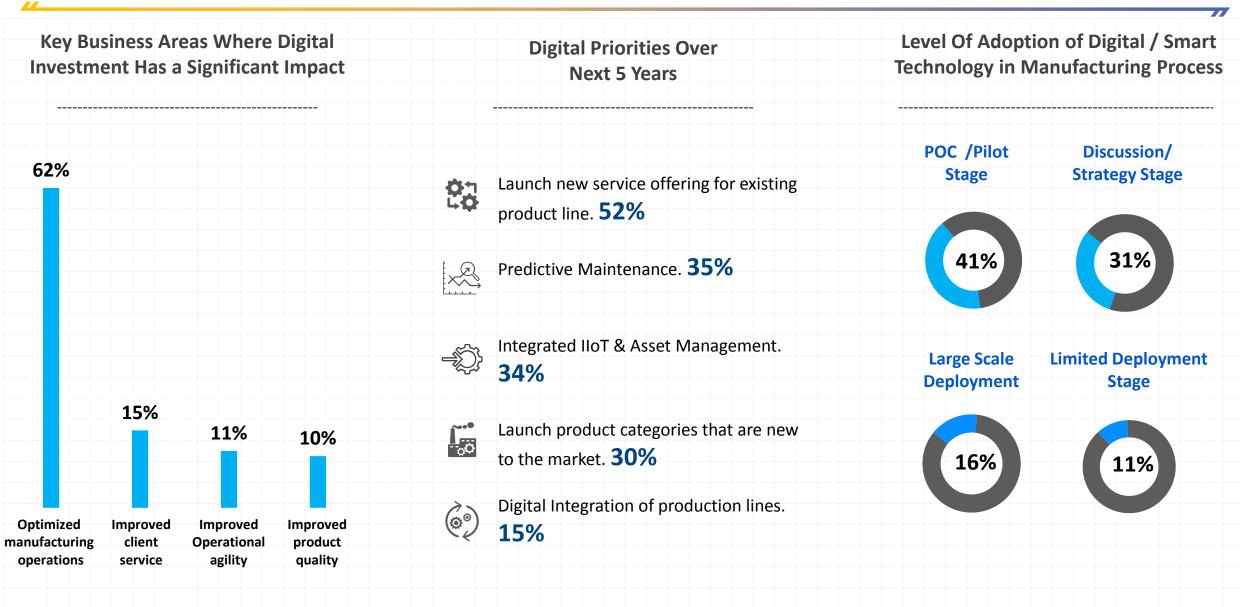








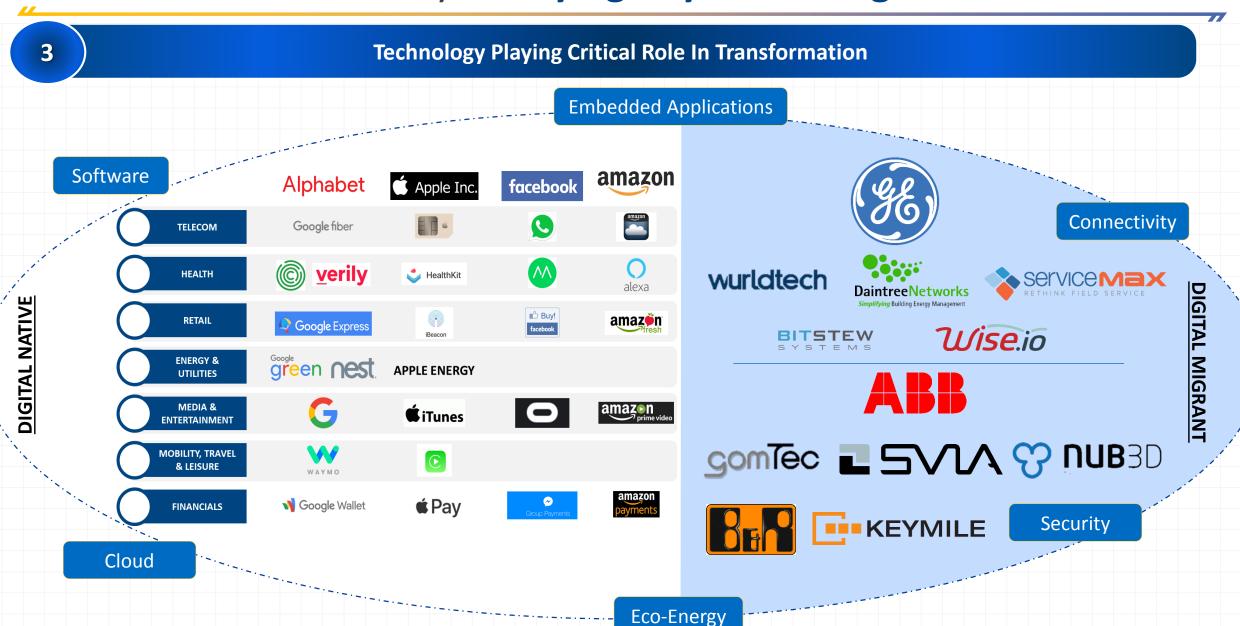
...resulting in our customers transforming their business



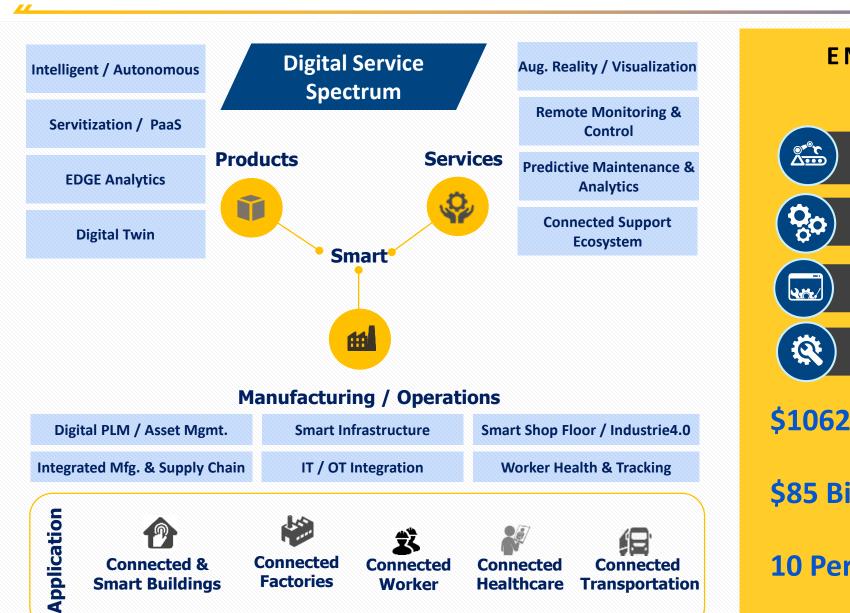
...leading to significant changes in the engineering practices...



...across all industries by Marrying Physical to Digital



Services Industry: The ideal partner for this DIGITAL powered dynamic world



ENGINEERING AND R&D SERVICES



Manufacturing Support

Product Engineering Services

Software Product Development

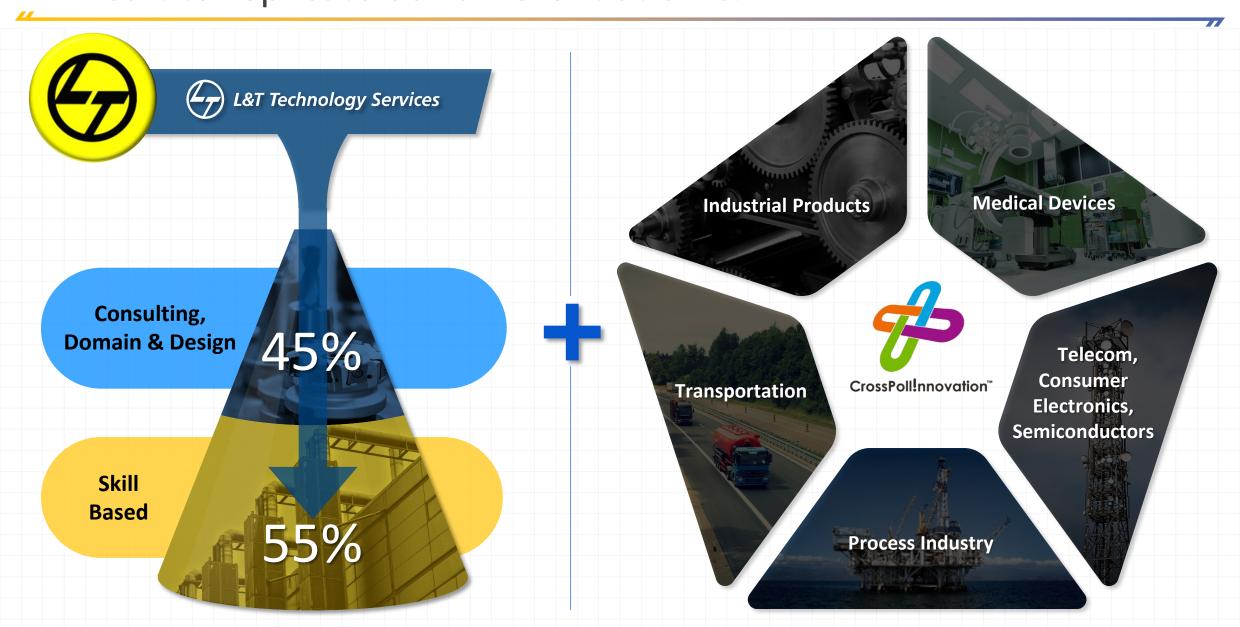
Plant Engineering

\$1062 Billion Global R&D Spend

\$85 Billion Opportunity Addressed

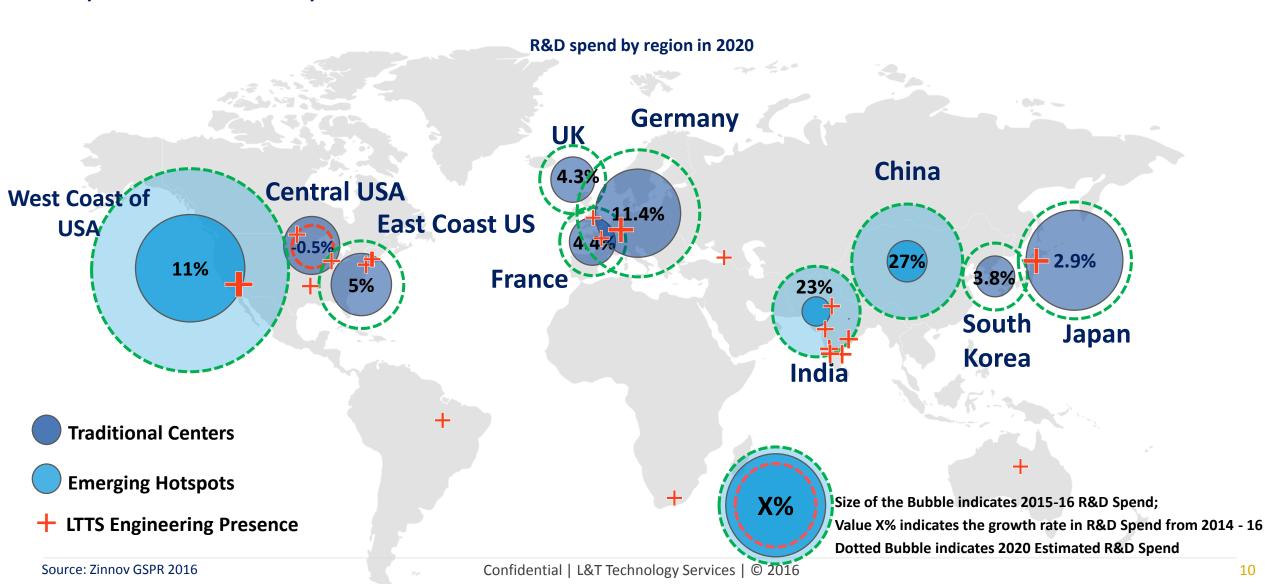
10 Percent India Revenue Growth

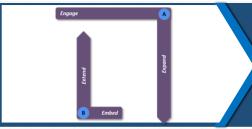
Difficult to replicate our differentiation &....



...unmatched multi-geo engineering presence

Bay Area & Germany at the center of Global R&D





Multi-Vertical & Regional Strategy

- 5 Verticals
- L Model
- US, Europe and Japan Markets



Global Design Centers & New Technologies

- Proximity & near-shore centers
- Specialized centers for POCs, solutions & frameworks
- Connected Product & Services, Smart Mfg & Operations, Perceptual Engg., Pervasive Technologies



Non Linear Revenues

- Licensed Revenue
- IP Influenced revenue

- iBEMS,
- UBIQWeise,
- GDA IP
- W.A.G.E.S
- DC DC Convertor
- Stackable Invertor
- NB IoT



Top Account Mining & Selective Hunting

- T30 Program
- A3 -Hunting Adjacencies
- Large Deals based on Annuity business model



Acquisitions

Selective acquisitions in Product Software & New age technologies which cuts across domains

....supported by best in class infrastructure with in-depth capabilities...

Research &

Development

L&T

Technology Services



Lighting Lab



Optics Lab

- Product Product Design & Development Product Benchmarking Value Engineering Smart Services Customer Integrated Supply **Product Launch Support** Chain Management
- # Aftermarket Support

- Conceptualization
- // Testing & Certification
- Digital PLM

Plant Engineering

Manufacturing

- Greenfield & **Brownfield Solutions**
- Engineering Data Warehouse Management
- Intelligent Industrial **Automation Service**
- Manufacturing **Engineering Services**
- Sourcing Supplier Consulting
- Should Cost Analysis



Medical Lab



Environmental Lab

Injecting Innovation

Improving Quality & Reliability

Optimize Operations

Enter **New Markets**

...we are being acknowledged multiple times by the industry

FROST & SULLIVAN

Excellence in Engineering Services Award



Leadership in IoT

Product Engineering

10 Verticals Embedded & Mechanical

DAIMLER

Innovation Award



Global Engineering
Productivity
Improvement Award &
Gold Supplier



Winners Circle in HfS' Industry 4.0

Gartner.

"Key vendors in the IoT embedded space"

DATAQUEST

Innovative use of digital technology



Golden Peacock National Quality Award 2017



IACC

"Company of the Year" &

"Green Office Space of the Year"

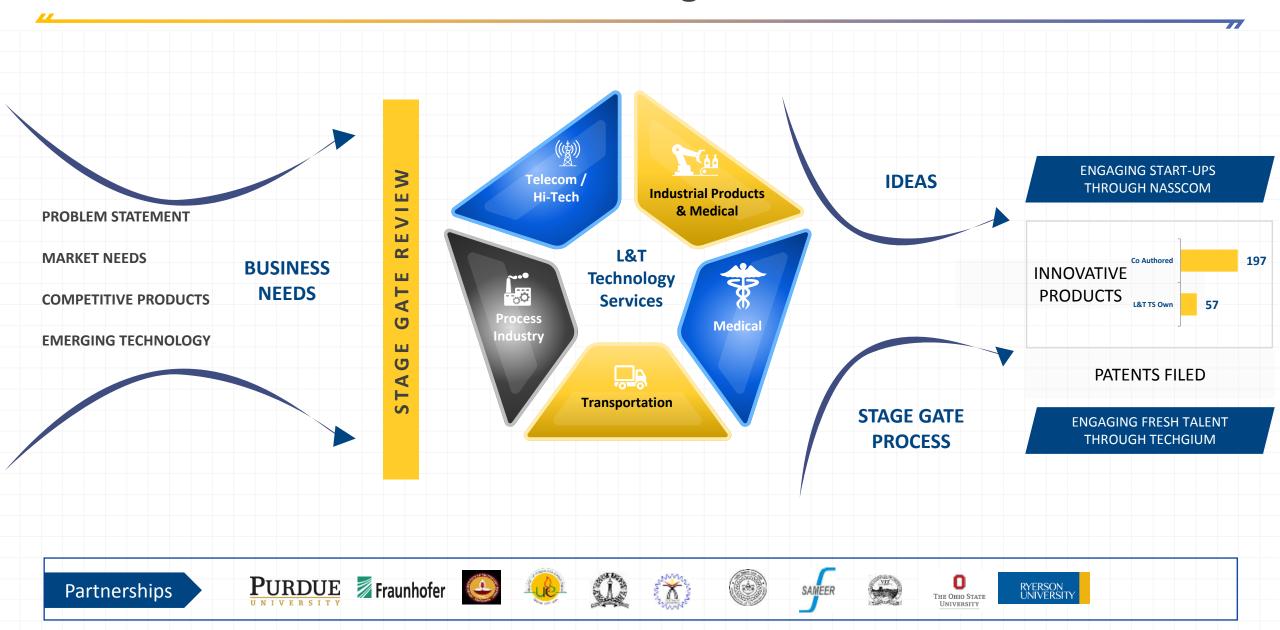


Quality Excellence Award in Product development

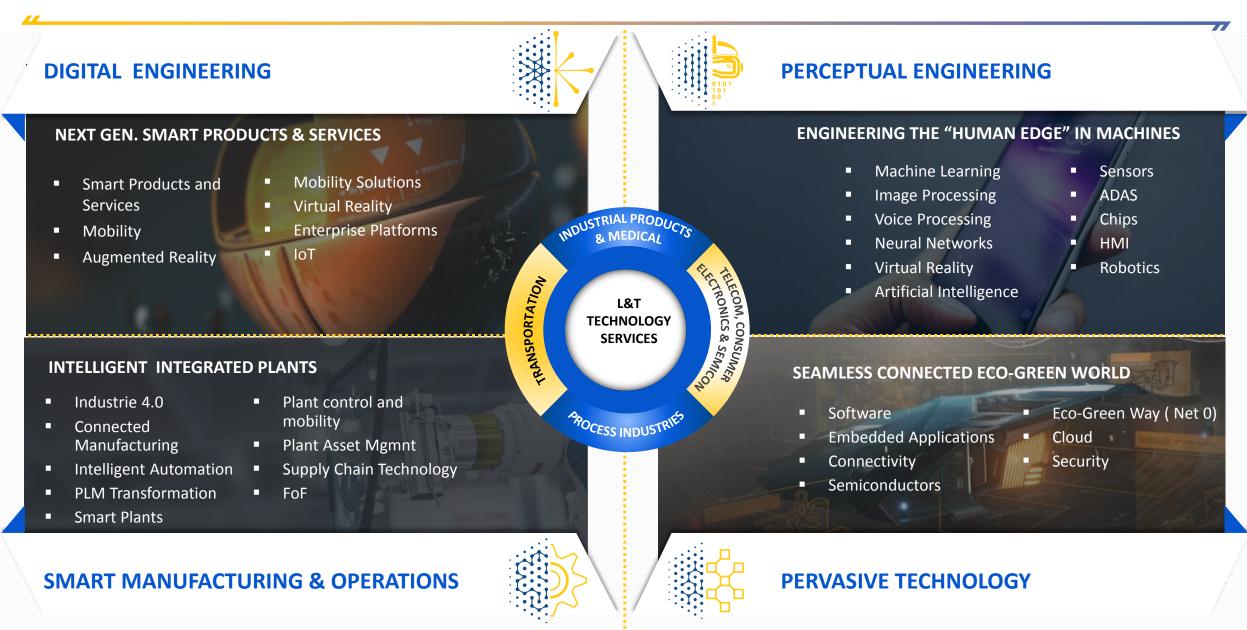


The Golden Globe Tigers Award 2016

We continue to be focused on driving innovation...



...and are investing for the future ... Infusing Digital in Physical



We are also a company with a heart...



Skill Development (Naya Savera)



Water Project (ENWA)



Environment Project (ENWA)



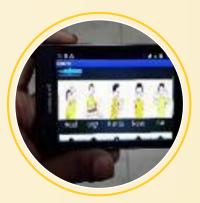
Education (Naya Savera)



Health Care (Sparsh)



Volunteering Activities (Samaritans)



Innovation & Technology (Tech Udan)

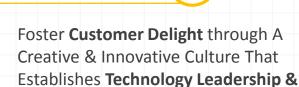
...and remain true to our founder's words.

VISION

- **Top 10** global engineering services companies in the world
- **Top 3** global pure-play engineering services provider

L&T Technology Services





Value For Our Stakeholders



Machinery must be there, buildings must be there, but without the people, it's all nothing. People are our only real asset.

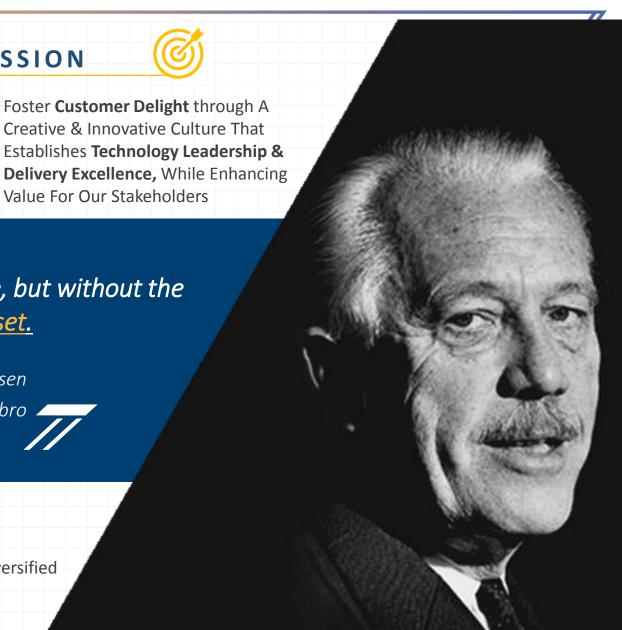
> *Mr. Henning Holck-Larsen* Co-Founder, Larsen & Toubro



VALUES



- Be An Ethical & Professional Organization With Respect For Individual & diversified global talent
- Uphold social harmony, peaceful existence, and inclusive growth





Profitable Growth



Amit Chadha

President – Sales & Business Development and Executive Director,

L&T Technology Services Limited



AGENDA

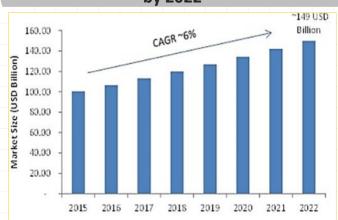


Our Worldscape

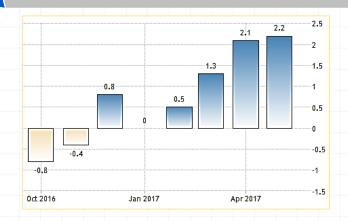
Global GDP growth is projected to rise at 3.5%



Industrial Automation market to be worth \$149B and to grow at 6% CAGR by 2022



U.S. Production stable: +2.2% year-onyear in May 2017



Semiconductor and sensors for IoT market to reach \$114.2B by 2025



Europe's automobile industry continues to post healthy rise in vehicle sales, Q1 (+8% YoY)



Oil and Gas industry to focus on reducing costs and to go digital



And what it means to us...



AGENDA

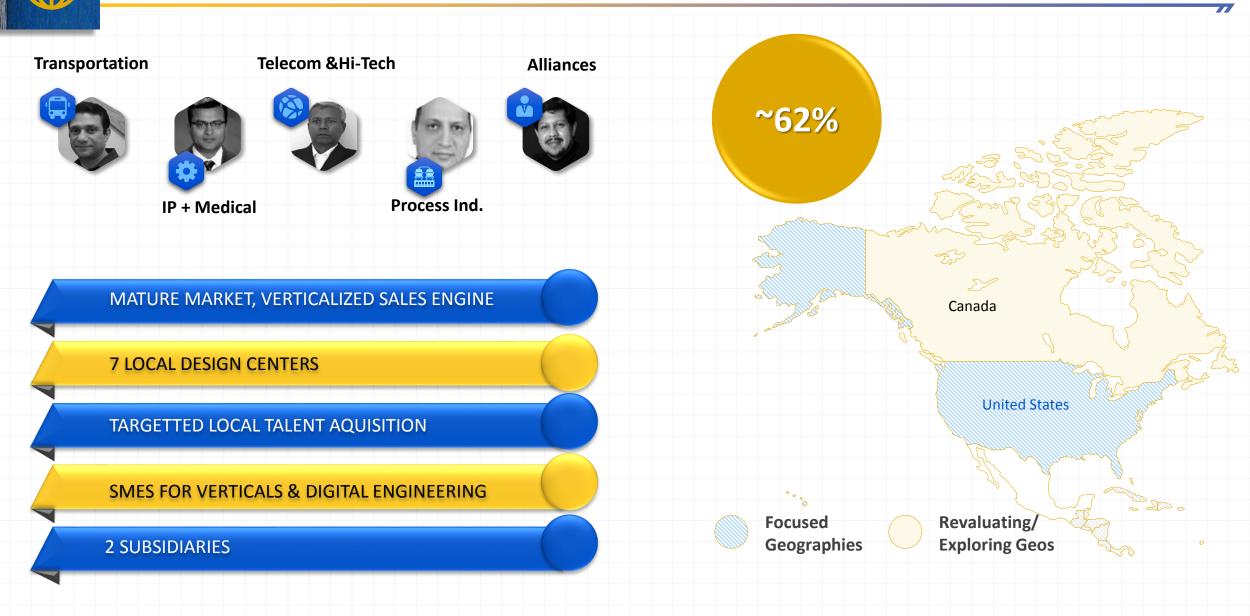
TRENDS OUR GROWTH STRATEGY RESULTS & THE WAY FORWARD 3

Our Growth Strategy



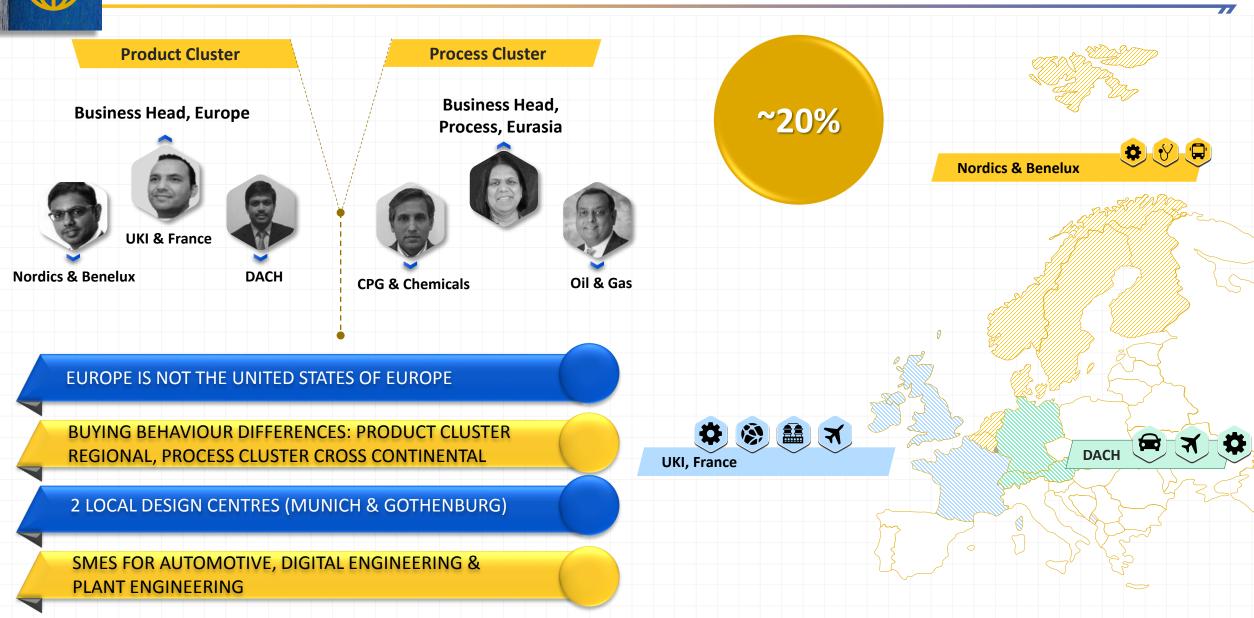


Geo-Specific Growth Approach: North America (1 of 3)



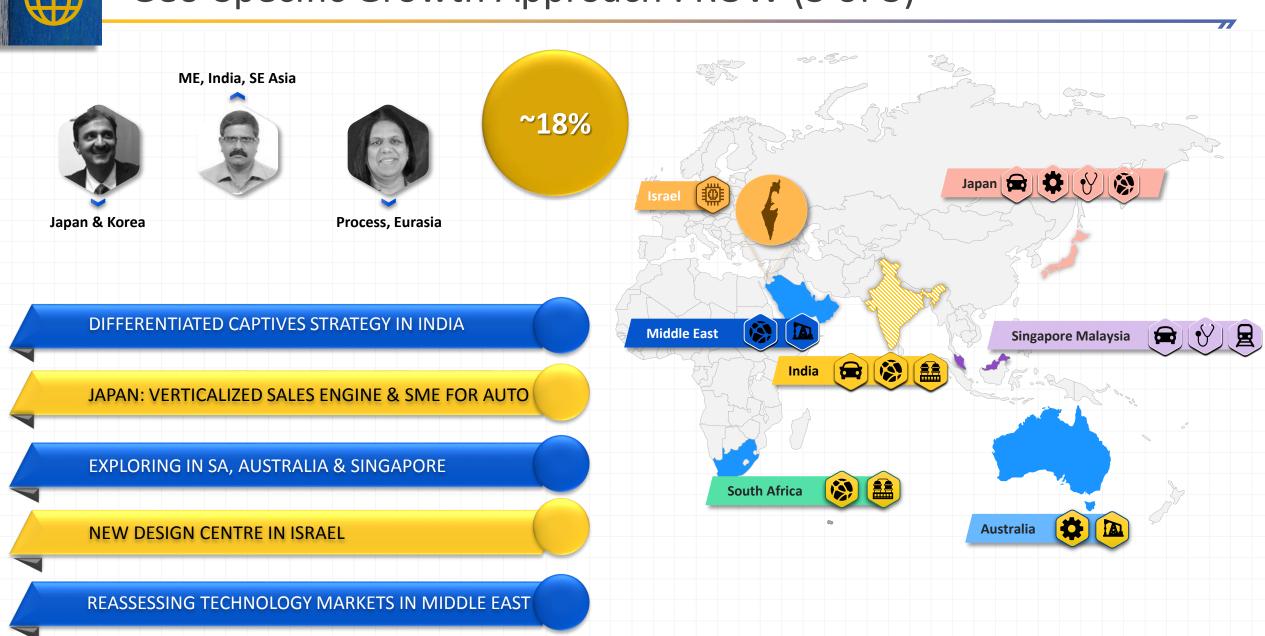


Geo-Specific Growth Approach: Europe (2 of 3)





Geo-Specific Growth Approach: ROW (3 of 3)





Augmenting Client Relationships

T30 Program

- Accelerate growth with Two in a Box model
- Client specific solutions for accelerated growth

Annual Ideation & Proactive Deal studio

 Engaging onsite & offshore teams in ideation and large deals with rigorous monthly reviews

Large Deals & Carve Outs

 Focus on MOLS carve outs and technology consolidation



Stakeholder Mapping & Geographic Expansion

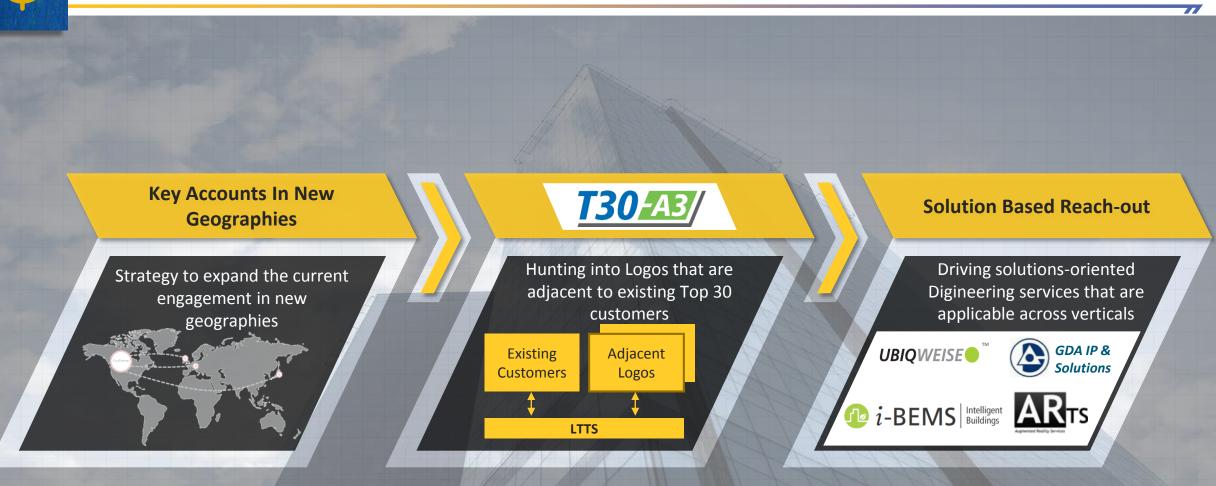
 Foreman - Chairman mapping and expanding into new geographies

Continuous assessment of Client Interfacing teams

The Answer to a \$50Maccount is not the sameas a \$5M account



Hunting Adjacencies





Micro-Vertical Focus (1 of 3)

Transportation



- In flight Entertainment
- Air Traffic Management
- Test Bench Development
- Avionics
- Wire Harnessing
- Signaling
- Real-time monitoring & Predictive
 Analytics
- Additive Manufacturing



AUTOMOTIVE

- ADAS/Autonomous Driving
- Infotainment
- Hybrid Cars
- Manufacturing Engineering

- Connected Cars
- Telematics



OFF HIGHWAY

- Localization
- Manufacturing Engineering
- Value Engineering
- Electronics Systems Development
- Hybrid /Electric Trucks• and buses
- Autonomous Driving
- Connected machines

Legend: Bread & Butter | Next-Gen



Micro-Vertical Focus (2 of 3)

Industrial Products

BUILDING & HOME AUTOMATION

- Building Management Solutions
- Energy Efficient Lighting
- Intelligent Mobility Solutions
- Imaging Algorithms

ELECTRICAL DRIVES & POWER

- Power Electronics
- Sustenance **Engineering**

- Real-time Monitoring & Analytics
- Energy efficient product development



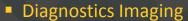
MACHINERY

- IoT
- Cost takeout **Programs**
- Machine Learning
- Value Engineering
- Artificial Intelligence
- Machine Vision
- Digital Twin

Medical Devices & Healthcare



DIAGNOSTICS



Manufacturing optimization

- Data Analytics and Security
- diagnostic



PATIENT CARE

- Wearable's applications



- Cost Optimization **Programs**
- Engineering Analysis(CAE)
- Real-time Connectivity and Integration
 - Intelligent Patient Care



SURGICAL

- Product Design and **Development**
- Risk Management and Compliance
- Value Engineering
- Robotics
- Reusable surgical solutions

Legend: Bread & Butter | Next-Gen

Micro-Vertical Focus (3 of 3)

Telecom and Hi-Tech

Process Industry



Testing



- STB Middleware Design & Development
- Cloud based Video
- Testing
- Dev-Ops
- Next-Gen Media Streaming



- Middleware development, Integration and Testing
- Application development and Testing
- Smart Homes & Security
- AR/VR Technology



TELECOM & ISV

- SDN/NFV and Network Management
- Product Design and Sustenance
- Software Development and Testing
- 5G Core and RAN Network
- Virtualization and Network Security
- Dev-Ops



CPG

- Sustenance Engineering
- Brown fieldDevelopment
- Plant ControlsMobility Solutions
- IntegratedManufacturingand Supply Chain



SPECIALITY CHEMICALS

- Green FieldDevelopment
- Sustenance Engineering
- Intelligent Industrial Automation
- Energy Audit & Energy
 Management Services



OIL & GAS

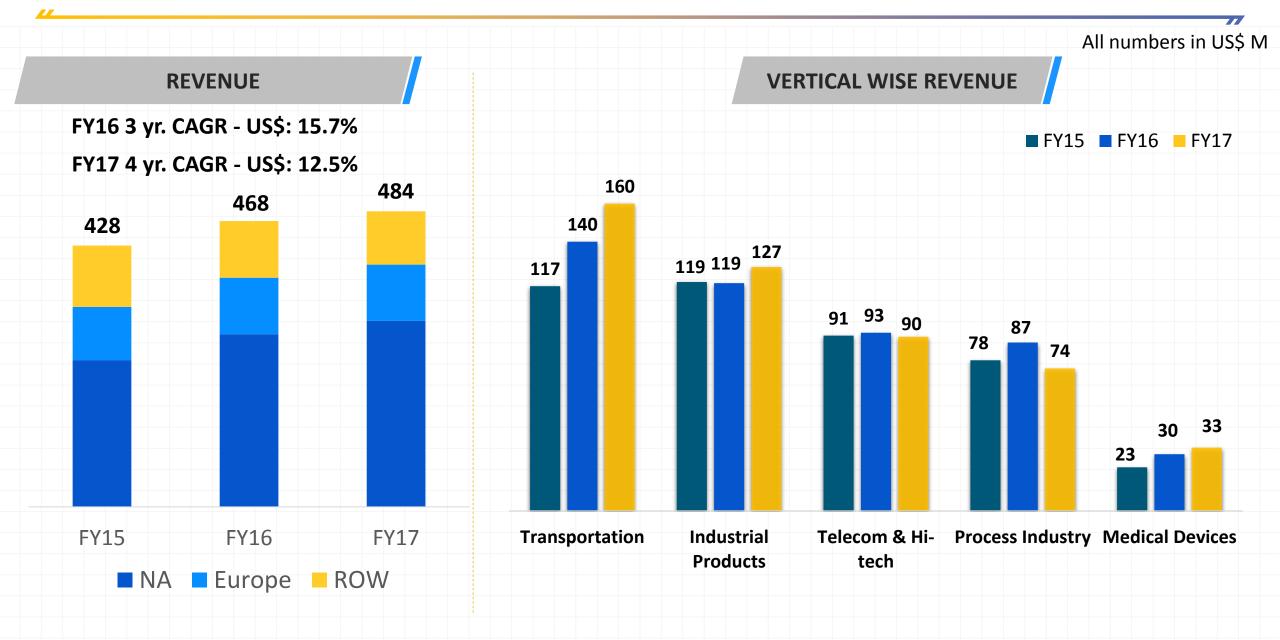
- AssetManagementSolutions
- DisciplineEngineering
- Digital Engineering
- Data Analytics and Interpretation

Legend: Bread & Butter | Next-Gen

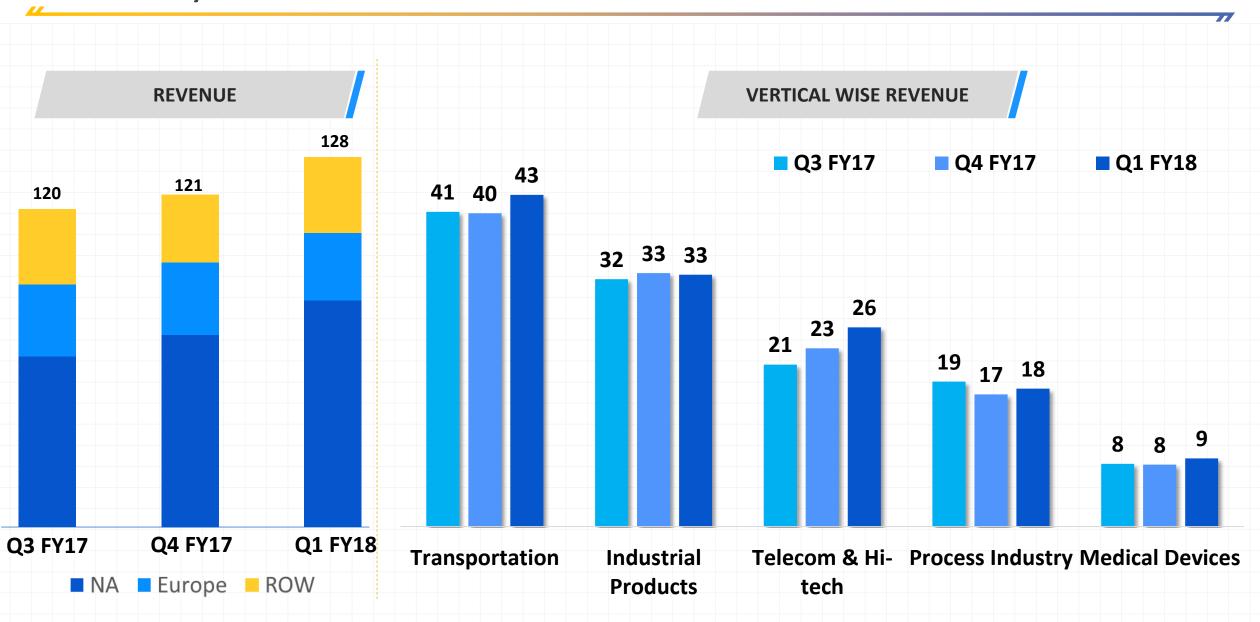
AGENDA



Results: Annual

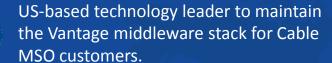


Quarterly Results: Growth is back



Key Wins

NORTH AMERICA



Multi-year contract consolidating relationship with a leading global semiconductor company

Expand Services for Global Auto maker at our centre of excellence in Dublin, Ohio.

Multi-year contract to provide digital engineering for a major oilfield services company.

Multi-year contract with a large global manufacturer of motion and control technologies.

Advanced development and testing for the core R&D of one of the world's leading global diversified industrial products conglomerate.

Major Contract with a leading medical devices company for its range of Surgical products and medical devices.

EUROPE

Contract for its infotainment systems testing, functional integration and testing and system validation from one of the worlds leading Auto OEM

for design, development, implementation and standardization of digital engineering framework across all its major business units.

Secured a multi-year engagement in Middleware application development for a global telecom player. LTTS has set up an ODC for middleware development to address their end customer projects.

LTTS is offering design verification, specification support, engineering surveillance and information management services to one of the world's largest process companies in a multi-year

ROW

Multi-million dollar smart campus deal in Israel jointly with Microsoft to develop the world's smartest office for a leading US tech conglomerate.

LTTS augmented its relationship with a leading global automotive major for R&D Outsourcing, Product Development and **Sustenance Engineering**











Our clientele continues to be our prized asset...

8 of Top 10
Transportation
R&D spenders

7 of Top 10Telecom Hi-Tech
R&D spenders

48 OF TOP 100R&D SPENDERS

2 of Top 5 Medical R&D Spenders 8 of Top 10
Industrial and Process
R&D spenders







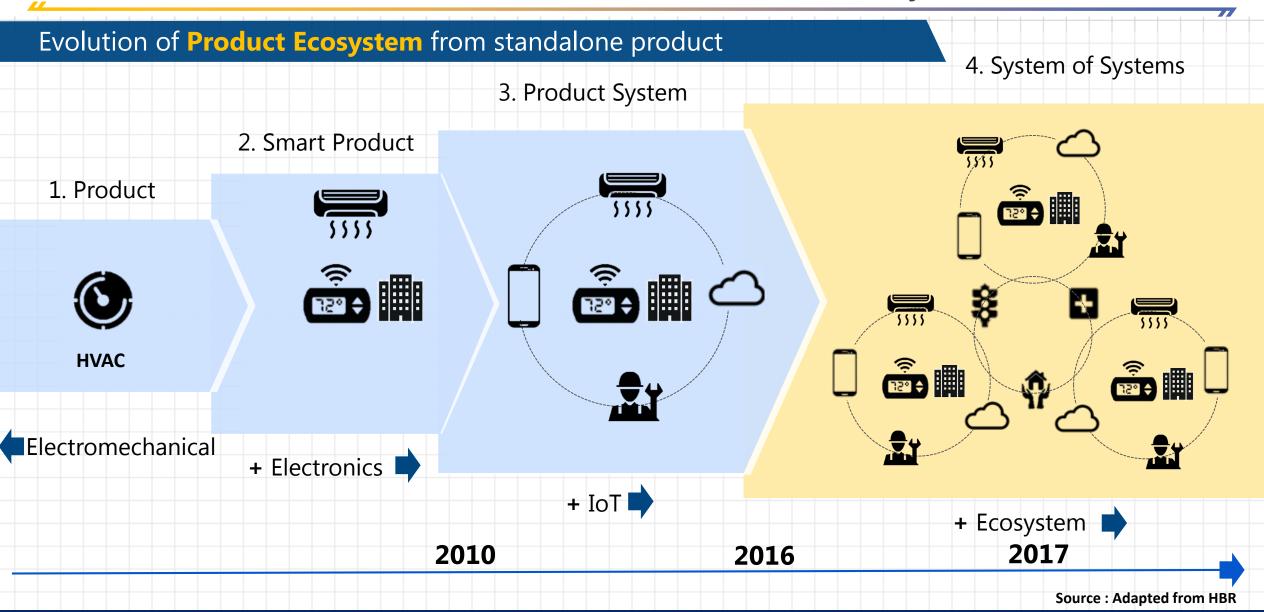
Bhupendra Bhate

Chief Digital Officer



WE HAVE ENTERED AN ERA OF TECHNOLOGY CONFLUENCE DRIVEN PRODUCT ECOSYSTEM WHICH UNLOCKS NEW GROWTH AVENUES

Practitioner's view on Product to Product Ecosystem



Tectonic shift to Product Ecosystem extends the boundary of Engineering

What goes behind Product Design?

Complex product design has been LTTS's traditional strength...

TRANSPORTATION



Passive Occupant Detection System for Passenger Safety

INDUSTRIAL PRODUCTS



4.5 KW High Power Amplifier Acoustic Downhole Transmitter

AERO



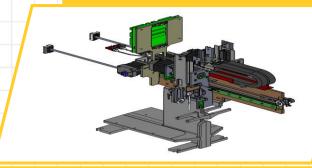
Flight Control Computer to control Unmanned Arial Vehicle

TELECOM



Ruggedized Tablet for Extremely Harsh Conditions, Mission Critical

MEDICAL



Cost Reduction of Pipettor Gantry
Assembly by 25+%

PLANT ENGINEERING



Barrier Free, IGBC Green Certified Manufacturing Plant Design

...now we are transitioning to product ecosystem design

Innovation – a Key Ingredient to Product Differentiator

Gyro Screw Driver



World's first Motion activated screwdriver

Piezo based Iron



Auto Steaming using Piezo actuator

Power Supply for Nuclear Plant Control System



1.5 KW, 24x7, 25 Yrs., Withstand 3 axis vibrations up to 7G

Vibration Compensator for Marine



Unique Electro-Pneumatic design, Eliminates unwanted vibrations

Cross Poll!nnovation™

Exploring the fundamentals

Challenging the limits...

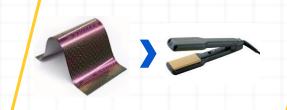
Revisiting the rules...

Power Transformer Monitoring Unit



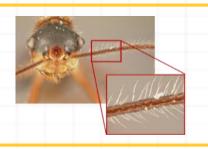
Cellular (4G LTE) & Wi-Fi **Connectivity Enabled**

Hair Straightener



Heaters using Nano Coated Thin Film

Extended Depth of Field for Microscopy



Advanced Image Processing Algorithm

Induction Mixer Grinder



First dual zone induction coil technology extended to mixers

Key Technologies behind Product Ecosystem



Technologies & Trends have always co-evolved!!!

Strategy to Monetize the Trends

ADDRESSING TRENDS THROUGH SPECIALIZED OFFERINGS









FOCUSING ON SOLUTIONS







ADDRESSING TRENDS THROUGH SPECIALIZED OFFERINGS



CONNECTED PRODUCTS

& SERVICES



SMART MANUFACTURING & OPERATIONS



PERCEPTUAL ENGINEERING



PERVASIVE TECHNOLOGIES

Connected Products & Services



CONNECTED PRODUCTS



Autonomous

Servicitization / PaaS

EDGE Analytics

Digital Twin

CONNECTED SERVICES

Augmented Reality / Visualization

Remote Monitoring & Control

Predictive Maintenance & Analytics

Connected Support Ecosystem

Smart Field Assist

Augmented Guiding for Remote Auto Servicing



CASE STUDY FOR CONNECTED SERVICES

Augmented Guiding for Remote Auto Servicing:

- Intuitive & Intelligent service assistance
- Online access to Service manual, Drawings
- Auto Health Monitoring
- Remote Supervisory Assist

Market Drivers:

- Monitor the health of spare parts in the vehicle
- Assistance in performing regular maintenance
- Spare parts management

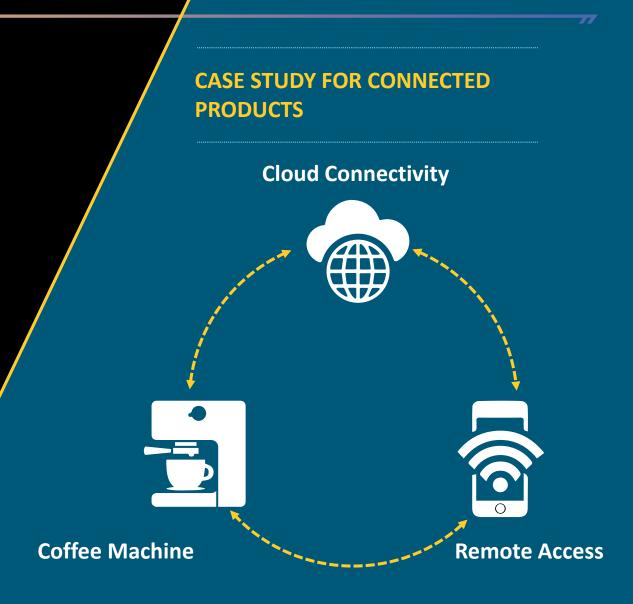
Connected Coffee Maker







Recipes can be taken from cloud and accordingly the Coffee Maker can be programmed for **different geographies depending on local taste.**



Smart Manufacturing & Operations



INDUSTRIE 4.0



Connected Machines/ Systems

SMART FACTORY



Remote Monitoring

Industrial IoT



Smart Logistics

DIGITAL MANUFACTURING



Smart Warehouse

Remote Asset Performance Management



CASE STUDY FOR SMART OPERATIONS

The key challenge in asset intensive industries is to manage field assets and equipment more effectively.

We created a Remote Asset Performance
Management Solution for a Construction Major
which:

- Intends to cover 30 thousand assets across
 500 asset types
- Expected 12% improvement in asset utilization
- Reduced costs as on-time asset availability improve
- Uses our home grown **UBIQWeise™** platform



CASE STUDY FOR SMART MANUFACTURING

Client requirement was to connect critical 25 years old machines in manufacturing plant for remote monitoring of Overall Equipment **Effectiveness (OEE).**

We developed a solution where Multiple machines in a plant and multiple plants at different locations have been retrofitted with sensors and connectivity.

- Developed Software to analyze, monitor and measure OEE parameters.
- Provides Predictive Maintenance and Energy Conservation.
- Measures the effectiveness and efficiency of manufacturing process.



Perceptual Engineering - Enabling the "HUMAN EDGE" in Machines



AI in Welding Machine



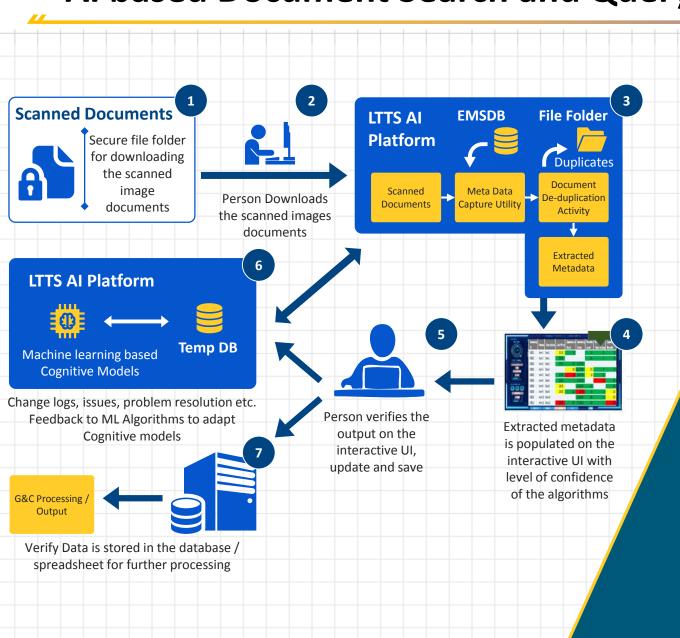
CASE STUDY FOR ARTIFICIAL INTELLIGENCE

Developed a welding machine that learns the machine usage patterns using a AI Algorithm and creates a library of different users as per their skills.

Provides **REAL TIME WELD SCORE** and **SUGGESTS TRAINING** to welders based on their weld score.

Weld Score is provided after every weld session which rates that weld on terms of uniformity, quality, strength of the weld.

AI based Document Search and Query Engine



CASE STUDY FOR ARTIFICIAL INTELLIGENCE

We created NLP based Search Application for NA based Engineering Major which brings information and insights to the users who need it fast with minimum efforts.

- Includes Global Engineering Practices that address design, fabrication, inspection, testing, and operational requirements that are accessed by their various stakeholders globally.
- Complete data is indexed in Unified View

Pervasive Technologies - Seamlessly Linked Eco-Green World



Smart City Energy Solution for Utilities

We created a complete end-to-end solution for **US based Utility Major** to monitor energy distribution performance at all levels. **Analytics Engines ERP Servers** Feeder Cloud iTM (intelligent Transformer Module) connected to Transformer WiFi Connectivity **Smart IoT Devices** Meters connected Fleet in Wi-Fi MESH connected in **MESH** network

Config

CASE STUDY FOR MESH TECH.



HARDWARE SOLUTION

Connected to Meter and Transformer Junction Box

 Transformer health monitoring by capturing critical transformer data like oil and coil temperatures, moisture levels, loading etc.

NETWORK SOLUTION



Data Transmission over Wi-Fi

- Proprietary Mesh Topology
- Uploading voluminous on cloud.
- Scalable network for multimillion end points

SOFTWARE SOLUTION



Remote Monitoring Application

- Fault & Theft Management
- Demand & Outage Management
- Energy Meter Device Management
- Billing Generation

Electric Vehicles Eco System

CHARGING INFRASTRUCTURE

POWER ELECTRONICS

CASE STUDY FOR MESH TECH.



IMAGE PROCESSING EV DESIGNED & DEVELOPED BY LTTS ■ The current Prototype gives 100 miles drive on one single charge

- Next phase target is 300 miles in one single charge
- ADAS is now being integrated for driverless car prototype

Containerized Battery Energy Storage System



CASE STUDY FOR RENEWABLE

CBESS is one of the best options for Grid Power **Storage, Wind/Solar Farm Renewable Energy Integration and Remote Micro Grids.**

- Ensures continuous power and reliability
- Makes energy available wherever & whenever
- Uses High Performance DC –DC Solution

BENEFITS OF BESS



Reduce High generation cost during peak demand periods



Maximize Utilization of excess Solar/Wind Power



Reduce Network Costs



Supplementary Power Source during Power Cuts



Low Cost, Pollution Free Energy Source

FOCUSING ON SOLUTIONS



SOLUTION FRAMEWORK



START-UP AND ALLIANCES



IP CREATION / MONETIZATION

Solution Frameworks



Intelligent Building Energy
Management System

- System of Systems
- Modular & Customizable System
- Advanced Analytics

i-BEMS PLATFORM HAS BEEN DEPLOYED IN WORLD'S SMARTEST CAMPUS IN ISRAEL

UBIQWeiseTM

IoT Platform

- Device Health Monitoring
- Predictive Analytics
- Data Aggregation

DEPLOYED SUCCESSFULLY FOR HVAC AND CONSTRUCTION MAJOR

WAGES

Water, Air, Gas, Energy,
Steam

- Monitoring Plant KPI
- Energy Monitoring & Metering
- Water Recycling & Reuse Engineering

SUCCESSFULLY USED FOR FMCG
MAJOR

IP Creation/Monetization



	IP Monetization Pla	n
Patent Monetization Opportunity Exploration	Patent Shortlisting	Potential Buyer Identification & Negotiation, Signing & Closure
Phase 1	Phase 2	Phase 3

Sr. No.	Patents Shortlisted for Monetization
1	CO₂ concentration in building using Camera
2 & 3	 A Method and System for Automated Light Intensity Testing of BMS A Method and System for Flicker Testing of Loads Controlled by BMS
4	Hydraulic hybrid for off-highway machine

THE ERA OF A SYSTEM OF SYSTEMS HAS JUST BEGUN.

WE ARE SEEING INCREASING TRACTION, STARTING WITH PILOTS ON PRODUCT ECOSYSTEM.

AS AN ENGINEERING SERVICE PROVIDER WITH EXTENSIVE TRACK RECORD IN INNOVATION, WE ARE WELL PLACED TO CAPITALIZE ON THIS TREND.

THANK YOU!





P Ramakrishnan

Chief Financial Officer

L&T Technology Services Limited



Performance Highlights – Consolidated

FY15	FY16	FY17	Doromotors	Q1 FY18
Actual	Actual	Actual	Parameters	Actual
428	468	484	Revenue from Operations (USD Mn)	128
26,186	30,662	32,483	Revenue from Operations (Rs. Mn)	8,226
252	845	591	Other Income (Rs. Mn)	262
15.2%	16.9%	18.0%	EBITDA Margin	15.3%
13.4%	15.0%	16.1%	EBIT Margin	13.5%
11.9%	13.7%	13.1%	Net Income Margin	11.9%
61.14	65.47	67.06	Avg. Exchange Rate (USD/INR)	64.45

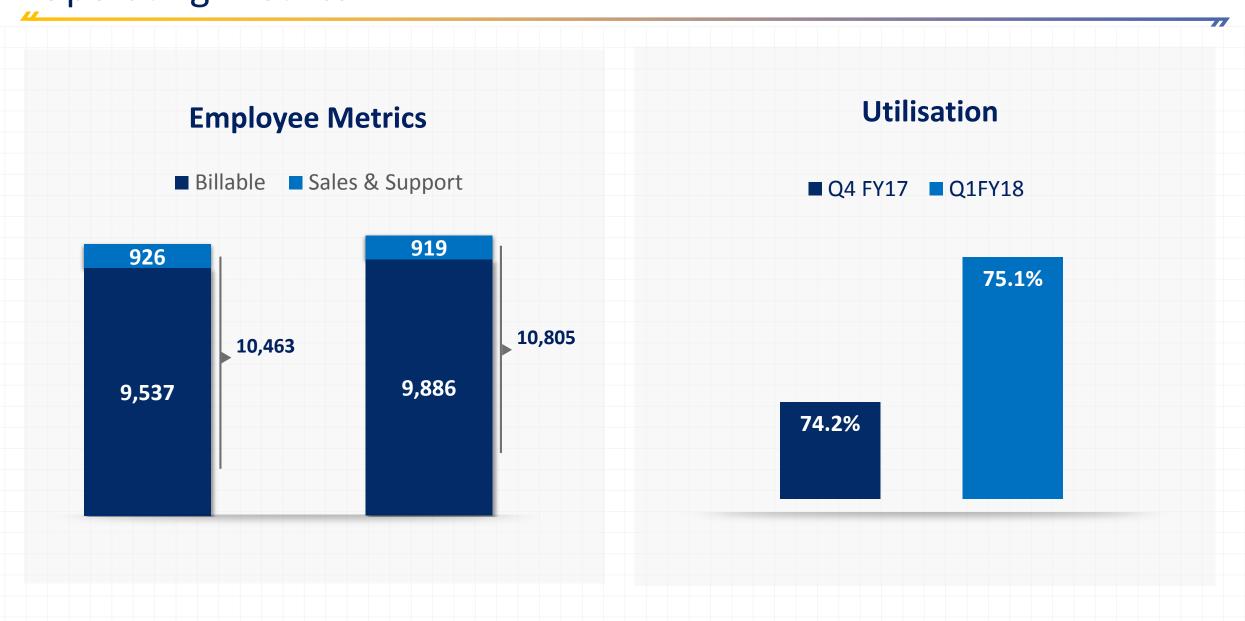
Q1 FY18 Performance Highlights – Consolidated

Q1 FY17	Q4 FY17	Dawanastana	Q1 FY18
Actual	Actual	Parameters	Actual
120	121	Revenue from Operations (USD Mn)	128
8,029	8,123	Revenue from Operations (Rs. Mn)	8,226
231	41	Other Income (Rs. Mn)	262
18.6%	16.5%	EBITDA Margin	15.3%
16.3%	14.7%	EBIT Margin	13.5%
13.5%	11.9%	Net Income Margin	11.9%
66.85	66.99	Avg. Exchange Rate (USD/INR)	64.45

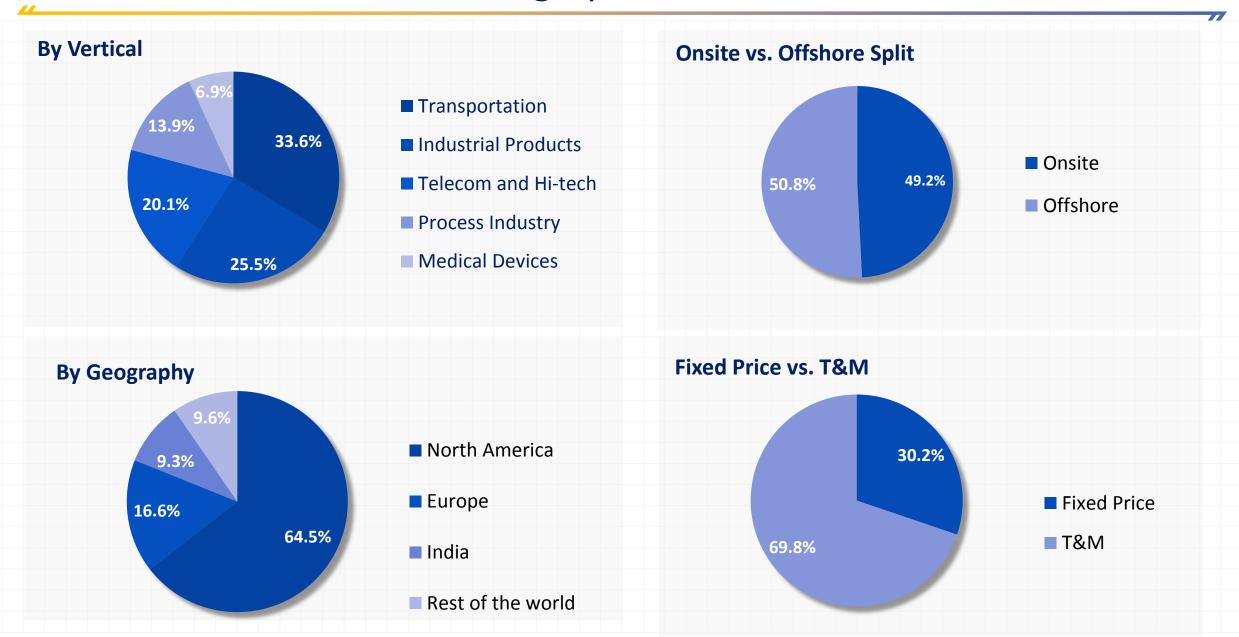
Balance Sheet

		Rs. Crore
LTTS Consolidated As on 31/03/2017	Parameters	LTTS Consolidated As on 30/06/2017
20	Share Capital	20
1,465	Reserves & Surplus	1,603
(0)	Non-Controlling Interest	(1)
1,485	Total Equity	1,622
-	Non-Current Liabilities	20
1,486	Total Equity & Liabilities	1,642
119	Tangible Assets	120
495	Intangible Assets	604
2	Capital Work in Progress	
65	Non-Current Assets	59
1,472	Current Assets	1,541
667	Less: Current Liabilities	682
805	Net Working Capital	859
1,486	Total Assets	1,642

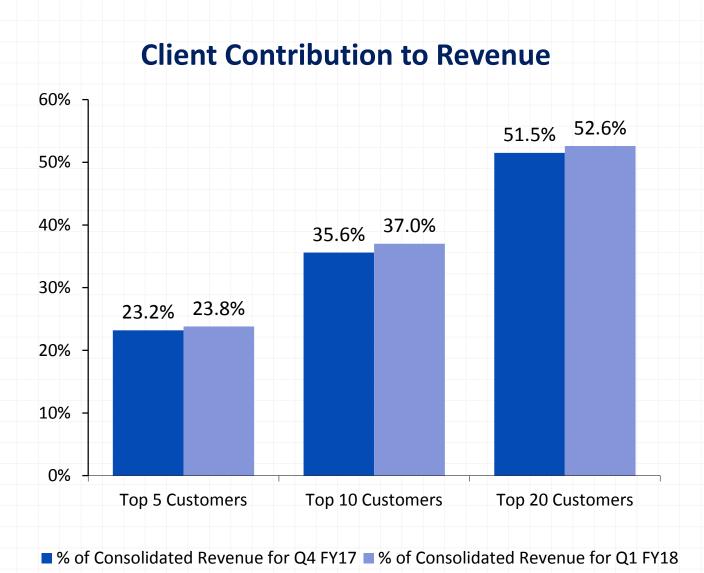
Operating Metrics



Diversified Business and Geographical Mix



Customer Base



Revenue-wise Client Profile

Customer Revenue (USD Mn)	No. of Customers Q4 FY17	No. of Customers Q1 FY18
30 Million +	1	2
20 – 30 Million	2	1
10 – 20 Million	6	8
5 - 10 Million	21	16
1 - 5 Million	49	53





